

IN THE CLAIMS

Please amend claims 16 and 18, as set forth below.

The text of all pending claims, along with their current status, is set forth below:

1. (original) A notification mechanism, comprising:
a plurality of completion queue handlers associated with a communication device, each
of the plurality of completion queue handlers associated with a process; and
at least one completion queue associated with each one of the plurality of completion
queue handlers.
2. (original) The notification mechanism set forth in claim 1, wherein the
process is associated with at least one processor.
3. (original) The notification mechanism set forth in claim 2, wherein each of
the plurality of completion queue handlers generates an interrupt to the processor associated
with the process
4. (original) The notification mechanism set forth in claim 1, wherein a verb
modifies an association of the at least one completion queue associated with at least one of the
plurality of completion queue handlers.

5. (original) The notification mechanism set forth in claim 1, wherein a verb creates the at least one completion queue associated with at least one of the plurality of completion queue handlers.

6. (original) The notification mechanism set forth in claim 1, wherein a verb returns a number of the plurality of completion queue handlers that are associated with the communication device.

7. (original) The notification mechanism set forth in claim 1, wherein each of the plurality of completion queue handlers are associated with at least one completion queue through a completion queue handler identifier.

8. (original) A network, comprising:
a plurality of systems;
a switch network that connects the plurality of systems for communication; and
at least one of the plurality of systems, wherein the at least one of the plurality of systems comprises:
a communication device having a plurality of completion queues; and
at least two completion handlers associated with the communication device, wherein each completion handler is associated with one of a plurality of processes and associated with at least one of the plurality of completion queues.

9. (original) The network set forth in claim 8, wherein the plurality of completion queues are associated with a plurality of queues.

10. (original) The network set forth in claim 8, wherein a first of at least two completion handlers is associated with one of the plurality of processes and a second of the at least two completion handlers is associated with another of plurality of processes.

11. (original) The network set forth in claim 10, wherein the first of at least two completion handlers communicates a first interrupt to a first processor associated with one of the plurality of processes and the second of the at least two completion handlers communicates a second interrupt to a second processor associated with another of the plurality of processes.

12. (original) The network set forth in claim 10, wherein a verb modifies the association of the first of at least two completion handlers with one of the plurality of processes.

13. (original) The network set forth in claim 8, wherein the at least two completion handlers reside in memory in the communication device.

14. (original) The network set forth in claim 8, wherein the at least two completion handlers reside in memory at least one of the plurality of systems that is external to the communication device.

15. (original) A method for providing notification to a plurality of processes, the method comprising the acts of:

creating a plurality of completion queues on a communication device, each of the plurality of completion queues associated with at least one of a plurality of completion queue handlers that are associated with the communication device, wherein each of the plurality of completion queue handlers are associated with one of a plurality of processes;

placing a completion queue entry on one of the plurality of completion queues;

invoking one of the plurality of completion queue handlers associated with the one of the plurality of completion queues; and

notifying the one of a plurality of processes associated with the one of a plurality of completion queue handlers.

16. (currently amended) The method set forth in claim 15, comprising executing a plurality of processes on a plurality of processors.

17. (original) The method set forth in claim 15, comprising issuing a verb to return a number of the plurality of completion queue handlers that are associated with the communication device.

18. (currently amended) The method set forth in claim 15, wherein the notification comprising comprises the one of a plurality of completion queue handlers sending an interrupt to one of a plurality of processors.

19. (original) The method set forth in claim 15, comprising issuing a verb to create one of the plurality of completion queues.

20. (original) The method set forth in claim 15, comprising modifying the at least one of the plurality of completion queues through the issuance of a verb to modify the association of at least one of the plurality of completion queues with at least one of a plurality of completion queues.

21. (original) The method set forth in claim 15, wherein the creation of the plurality of completion queues comprises defining each of the plurality of completion queues in a memory.